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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,140	01/24/2005	Tino Arlt	449122076800	3993
	7590 03/20/2007 2 FOERSTER LLP	EXAMINER		
1650 TYSONS BOULEVARD SUITE 400 MCLEAN, VA 22102			TRAN, BINH Q	
			ART UNIT	PAPER NUMBER
		· .	3748	
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SHOKTENED STATUTOR	TUTORY PERIOD OF RESPONSE MAIL DATE DELIVERY MODE		Y MODE	
3 MONTHS		03/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/522,140	ARLT ET AL.			
		Examiner	Art Unit			
		BINH Q. TRAN	3748			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
2a) ☐ 3) ☐	<ol> <li>Responsive to communication(s) filed on <u>11 December 2006</u>.</li> <li>This action is FINAL. 2b) ∑ This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</li> </ol>					
Disposition of Claims						
4)  Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-9 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	inder 35 U.S.C. § 119					
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c) None of:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Information	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

Application/Control Number: 10/522,140

Art Unit: 3748

## **DETAILED ACTION**

This office action is in response to the amendment filed December 11, 2006.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office 71action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-9 are rejected under 35 U.S.C. 102 (e) as being anticipated by Ootake (Patent Number 6,698,192).

Regarding claims 1 and 4, Ootake discloses a method for regenerating a particulate filter (4), which is mounted in an exhaust gas channel of an internal combustion engine (1), filters particles out of the exhaust gas flowing inside of the exhaust gas channel and is intermittently regenerated during operation, comprising: measuring actual air mass flow (e.g. Q<sub>ac</sub>) supplied to the internal combustion engine; adapting a model for determining the an air requirement (e.g. Q<sub>w</sub>) to be expected at a current operating point to the actual air mass flow; and regeneration of the particulate filter is initiated if the model lies outside a predetermined parameter ranges after the adaptation (e.g. Q<sub>d</sub>) (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 2, Ootake further discloses that the regeneration is triggered if a difference of the actual air mass flow from the calculated air requirement exceeds a predetermined threshold value (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 3, Ootake further discloses that the air requirement is determined taking an empty or cleaned particulate filter as starting point (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 5, Ootake further discloses that the model is adapted to the actual air mass flow, whereby at least one adjustment value is suitably set and a regeneration is triggered if the adjustment value is outside the predetermined ranges (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 6, Ootake further discloses that the determination of the air requirement, other variables influencing the air requirement than accumulation of particles in the particulate

filter are taken into consideration (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 7, Ootake further discloses that the determination of the air requirement and a decision as to whether a regeneration is triggered occur at discrete operating points of the internal combustion engine (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 8, Ootake further discloses that the air requirement is calculated for control of the internal combustion engine, whereby a partly loaded filter is taken as a starting point (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

Regarding claim 9, Ootake further discloses that the actual air mass flow supplied to the internal combustion engine is determined by an air mass measuring device mounted in an intake tract of the internal combustion engine, or by a pressure sensor mounted in the intake tract of the internal combustion engine (e.g. See Figs. 10-12; col. 9, lines 65-67; col. 10, lines 1-67; col. 11, lines 1-51).

## Response to Arguments

Applicant's arguments filed December 11, 2006 have been fully considered but they are not completely persuasive. *Claims 1-9 are pending*.

Applicant's cooperation in explaining the claims subject matter more specific to overcome the claim rejection is appreciated.

Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection as discussed above.

Application/Control Number: 10/522,140

Art Unit: 3748

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

March 17, 2007

Binh Q. Tran

Patent Examiner

Page 5

Art Unit 3748